# MILITARY SPECIFICATION SHEET

# ELECTRON TUBES, RECEIVING

# TYPES 6V6Y AND 6V6GTY 1/

The complete requirements for procuring the electron tubes described herein shall consist of this document and the latest issue of Specification MIL-E-1.

This specification is mandatory for use by all Departments and Agencies of the Department of Defense.

# DESCRIPTION: Beam power pentode

Outline a --- 8-6 (EIA)

Outline b --- 9-11 or 9-41 (EIA)

Base a --- B-7-22 (low-loss phenolic)
Base b --- Low-loss phenolic (see note 1)

Envelope a --- MT8 Envelope b --- T9

Cathode a, b --- Coated unipotential

#### Base connections:

Pin No.	 1	2	3	4	5	7	8
Element a	 sh	h	a	g2	g t	h	k, g3
Element b	 ne or	h	a	g2	gl	h	k, g3
	no pin						

# ABSOLUTE-MAXIMUM RATINGS:

Parameter: Unit: Maximum:	a, b	Ef V 6.9	Eb Vdc 350	Ec1 Vdc	Ec2 Vdc 310	Ik mAdc 65	Pp W 13. 2	Pg2 W 2. 2	Ehk v 100	Alt ft 10, 000	
Minimum:	a, b	5.7									
TEST CONDITIONS:	a, b	6. 3	250	-12.5	250						

# GENERAL:

#### Qualification - Required

D denotes changes

<sup>1/</sup> To identify those tests that are applicable to a given type or to several types; tube types are designated by letters.

METHAN	NC THOD		COMPUTIONS	AQL [PERCENT	INSPECTION	EVMPO	LIMITS		UNIT
METHOD REQUIREMENT OR TEST		TYPE	CONDITIONS	(PERCENT DEFECTIVE)	LEVEL OR CODE	ZAMBOF	MAIN	MAX	UNIT
	Quality conformance inspection, part 1								
D 1266	Total grid current	a, b	Sec note 2	0. 65	11	Ic1	0	-2.0	µAdc
1256	Electrode current (anode)	a, b		0. 65	11	Тъ	33	57	mAdc
1256	Electrode current (screen grid)	a, b		0. 65	11	Ic2	0	7.5	mAdc
1341	Power output	a, b	Class A amplifier; Esig - 8.8 Vac; Rp = 5, 000 ohms	0. 65	11	Ро	3. 6		w
1246	Audio frequency noise	a, b	Esig = 280 mVac; Rp = 2,000 ohms (see note 3)	0. 65	п	EB			VU
<b>(D)</b> 1231	Emission	a, b	Eb = Ec2 = Ec1 = 30 Vdc (see note 2)	0, 65	п	Įs	100		mAdc
1201	Shorts and discontinuity detection	a, b		0.4	п				
	Quality conformance inspection, part 2								
1031	Low-frequency vibration	a, b	Ec125 Vdc: Rp 2,000 ohms	6, 5	S3	Ep		500	mVac
1301	Heater current	a, b		6.5	S3	И	410	490	mA
① 1336	Heater-cathode leakage	a, b		6.5	S3	lhk		50	μAdc
1306	Transconductance	a, b		6.5	S3	Sm	3,000	5, 200	μmhos
1331	Direct-interelectrode capacitance	a b	No shield Shield No. 308	6.5	Code E	Cpp Cin Cout	7. 9 5. 6	0. 9 11. 1 13. 5	pF pF pF
1101	Secureness of base wafer insert	a		6.5	S3				
1101	Secureness of base	b		6. 5	<b>S</b> 3		•		
1111	Base pin solder depth	a, b	See note 4	6.5	S3				
1211	Insulation of electrodes	a, b		4.0	S3		10		Meg
<b>D</b> 1105	Permanence of marking	a, b							
	Quality conformance inspection, part 3								
1501	Intermittent life	a, b	Group A; Eb Ec2 300 Vdc; Ec1 -20 Vdc; Ebk 100 V						
	Life-test end point (intermittent) (500 hours)	a, b	Power output	•••		Po	2. 3		w

#### NOTES:

- 1. The base shall be one of the following: B6-81, B6-84, B7-7, or B7-59,
- 2. This test to be performed at the conclusion of the holding period.
- 3. The rejection level shall be set at the VU meter reading obtained during calibration.
- 4. This test applies for flexible leads as well as for rigid leads.

Custodians:

Army - EL Navy - EC

Air Force - %5

Review activities:

Army - EL, MU Navy - SH

Air Force - 11, 85 DSA - ES

User activities:

Army -

Navy - AS, OS, MC, CG

Air Force - 19

Preparing activity: Navy - EC

(Project 5960-2289-22)